

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference WPP88353	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/GB2004/003263	International filing date (day/month/year) 28/07/2004	(Earliest) Priority Date (day/month/year) 28/07/2003
Applicant OXITEC LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☒ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

EXPRESSION SYSTEMS FOR INSECT PEST CONTROL

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☒ none of the figures is to be published with the abstract.

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International application No.

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - ☒ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material
 - ☒ in written format
 - ☒ in computer readable form
 - c. time of filing/furnishing
 - ☒ contained in the international application as filed
 - ☒ filed together with the international application in computer readable form
 - ☐ furnished subsequently to this Authority for the purpose of search
2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/85 A01K67/033

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N A01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HORN C ET AL: "A transgene-based, embryo-specific lethality system for insect pest management." NATURE BIOTECHNOLOGY, vol. 21, no. 1, January 2003 (2003-01), pages 64-70, XP002301699 ISSN: 1087-0156 the whole document	1-30, 33-42
X	WO 01/39599 A (ALPHEY LUKE ; THOMAS DEAN (GB); ISIS INNOVATION (GB)) 7 June 2001 (2001-06-07) the whole document	1-30, 33-42
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *Z* document member of the same patent family

Date of the actual completion of the international search

21 October 2004

Date of mailing of the international search report

05/11/2004

Name and mailing address of the ISA

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Cupido, M

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International Application No

PCT/GB2004/003263

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	THOMAS D D ET AL: "Insect population control using a dominant, repressible, lethal genetic system" SCIENCE (WASHINGTON D C), vol. 287, no. 5462, 31 March 2000 (2000-03-31), pages 2474-2476, XP002301700 ISSN: 0036-8075 cited in the application the whole document	1-30, 33-42
X	----- WU T-Y ET AL: "Expression of highly controllable genes in insect cells using a modified tetracycline-regulated gene expression system" JOURNAL OF BIOTECHNOLOGY, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 80, no. 1, June 2000 (2000-06), pages 75-83, XP004201980 ISSN: 0168-1656 the whole document	1-9, 33-36,42
X	----- CHEN H-H ET AL.: "The use of a modified tetracycline regulatory expression system with reduced basal level to develop an in vivo biopesticide expression system" FOOD SCIENCE AND AGRICULTURAL CHEMISTRY, vol. 2, no. 4, October 2000 (2000-10), pages 220-225, XP008037322 TAIPEI the whole document	1-9
A	----- ALPHEY L ET AL: "Dominant lethality and insect population control" MOLECULAR AND BIOCHEMICAL PARASITOLOGY, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 121, no. 2, May 2002 (2002-05), pages 173-178, XP002297190 ISSN: 0166-6851 cited in the application page 175 - page 177 -----	10-30

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Information on patent family members

International Application No

PCT/GB2004/003263

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 0139599	A	07-06-2001	GB	2355459 A		25-04-2001
			AU	1716501 A		12-06-2001
			CA	2392111 A1		07-06-2001
			CN	1433475 T		30-07-2003
			EP	1246927 A2		09-10-2002
			WO	0139599 A2		07-06-2001
			NZ	519175 A		27-02-2004
			SK	7352002 A3		06-11-2002
			US	2003213005 A1		13-11-2003
			ZA	200204167 A		25-08-2003
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